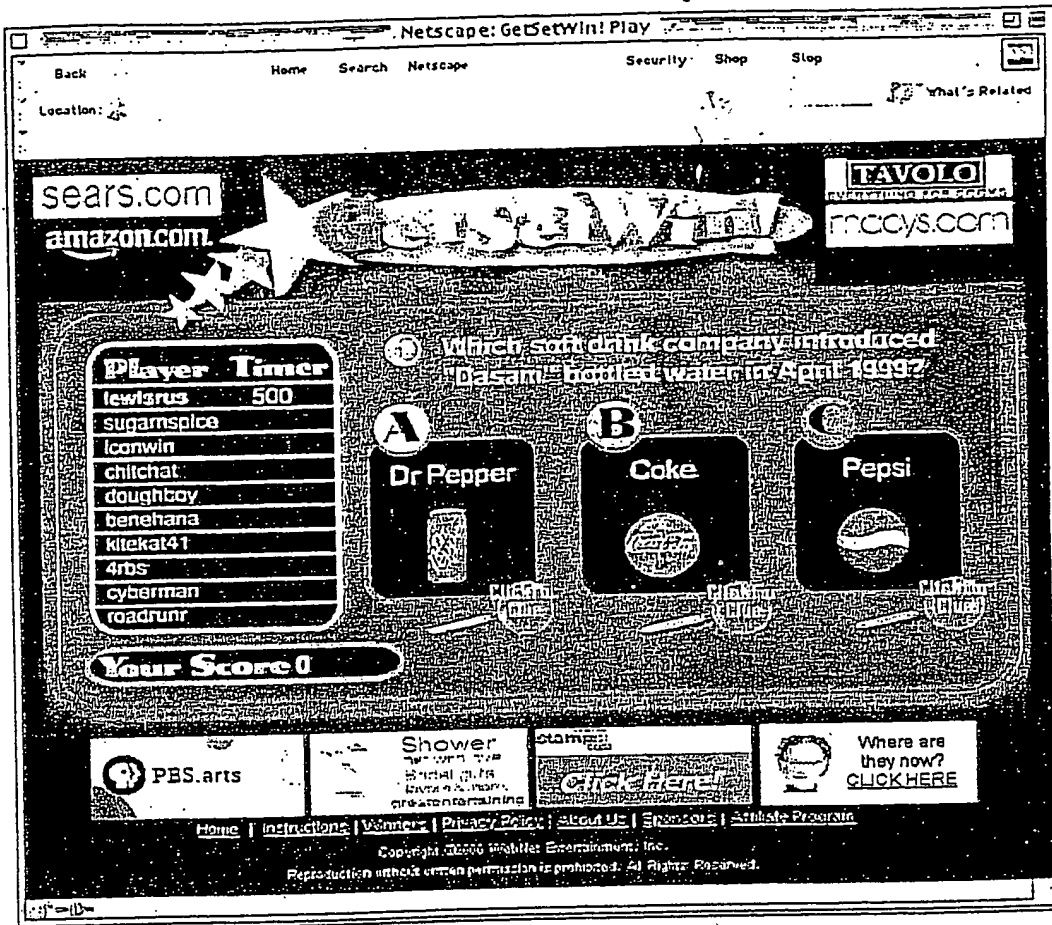


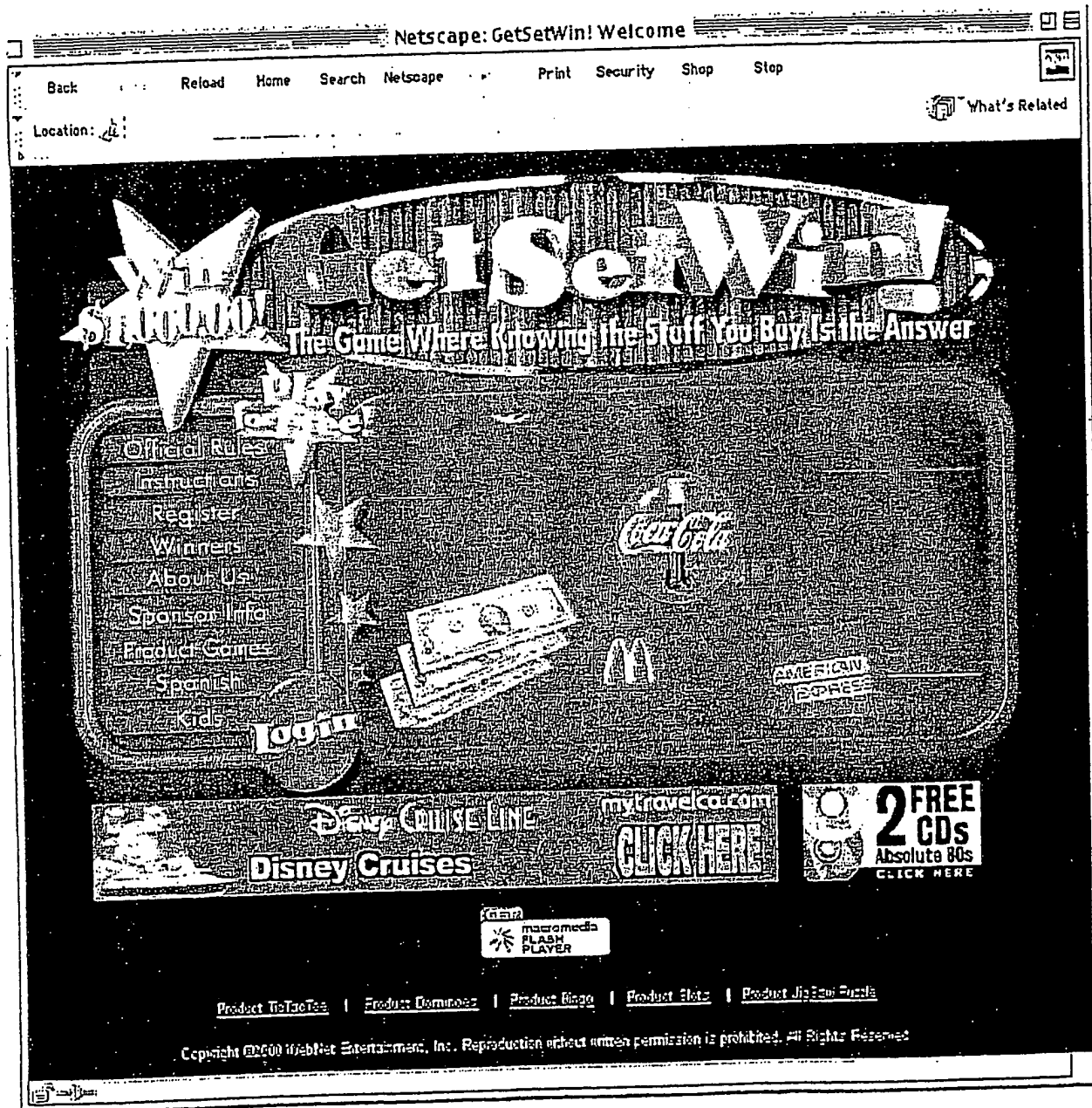
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FIGURE 1



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FIGURE 2



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Get What Set First, What To Begin

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1. **Prerequisites:** A solid understanding of basic algebra, geometry, and trigonometry is essential. Familiarity with vectors and matrices is also helpful.

2. **Concepts to Master:**

- Vector Spaces:** Understand the properties of vector spaces, including linearity and independence.
- Linear Transformations:** Learn how linear transformations map vectors from one space to another, and how they can be represented by matrices.
- Eigenvalues and Eigenvectors:** These are crucial for understanding the behavior of linear transformations, particularly in the context of differential equations and quantum mechanics.
- Inner Products:** These define the geometry of vector spaces, including notions of length and angle.

3. **Applications:**

- Physics:** Linear algebra is fundamental in classical mechanics, electromagnetism, and quantum mechanics.
- Engineering:** It is used in structural analysis, control systems, and signal processing.
- Computer Science:** Linear algebra is the backbone of computer graphics, machine learning, and data science.

4. **Resources:**

- Textbooks:** "Linear Algebra" by Gilbert Strang, "Linear Algebra and Its Applications" by David C. Lay, and "Introduction to Linear Algebra" by Shrawan Kumar.
- Online Courses:** Khan Academy, Coursera, and edX offer comprehensive courses on linear algebra.
- Software:** MATLAB, Python (NumPy), and Mathematica are useful for numerical computations and visualizations.

5. **Practice:** Regular practice is key to mastering linear algebra. Work through problems, proofs, and applications to solidify your understanding.

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FIGURE 4A

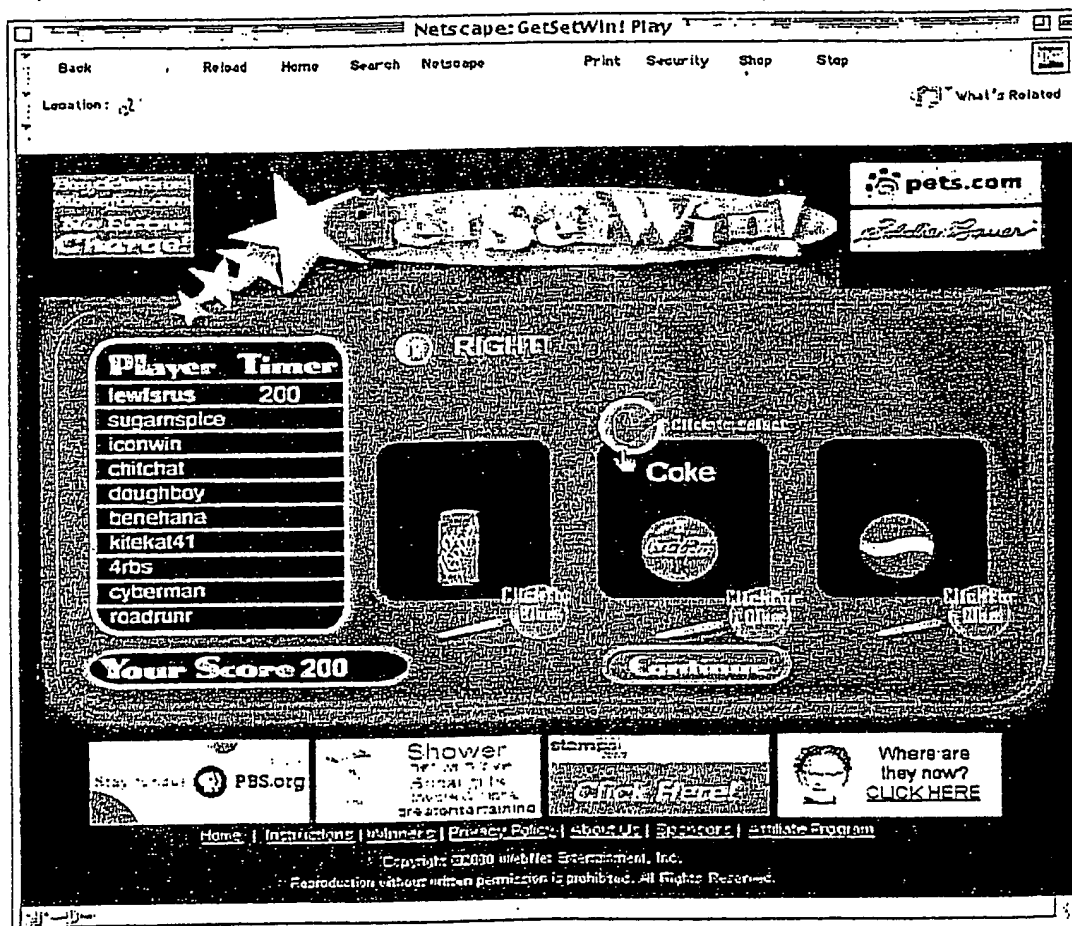


FIGURE 4B

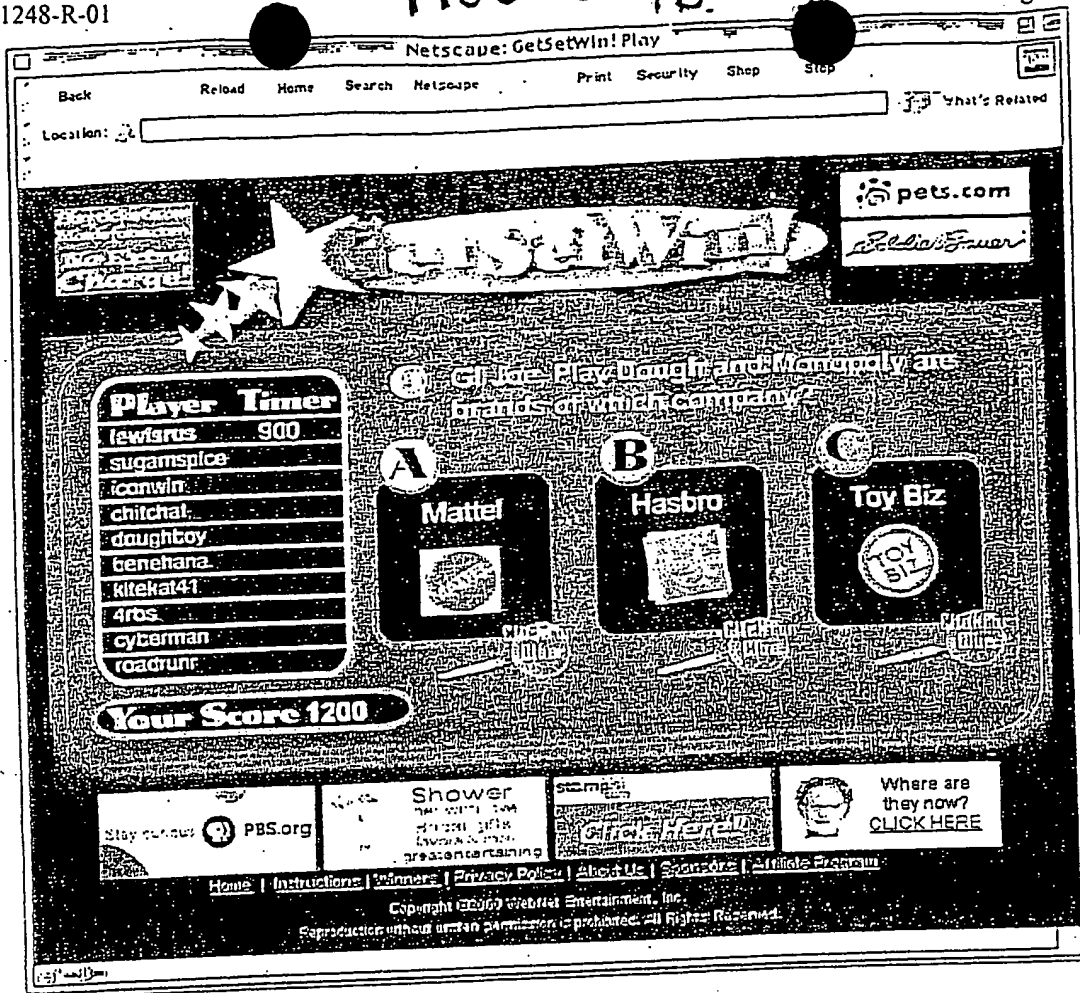
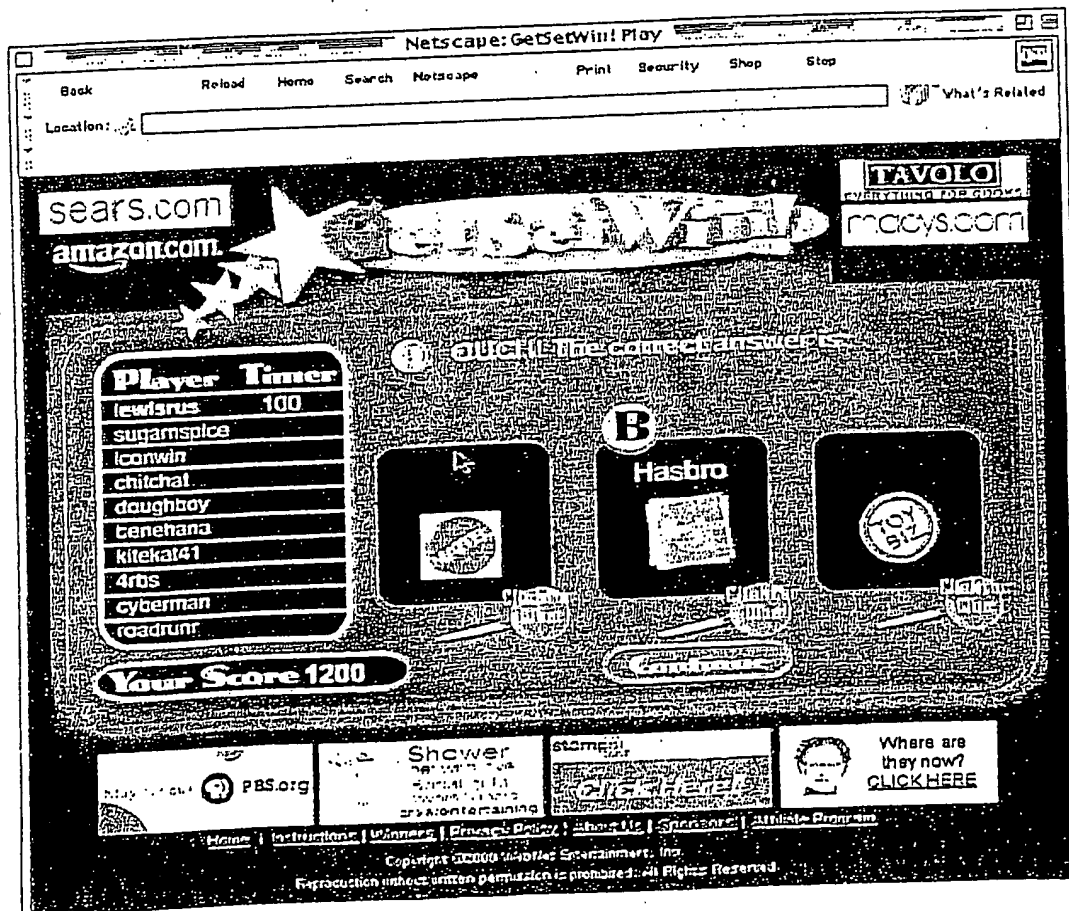
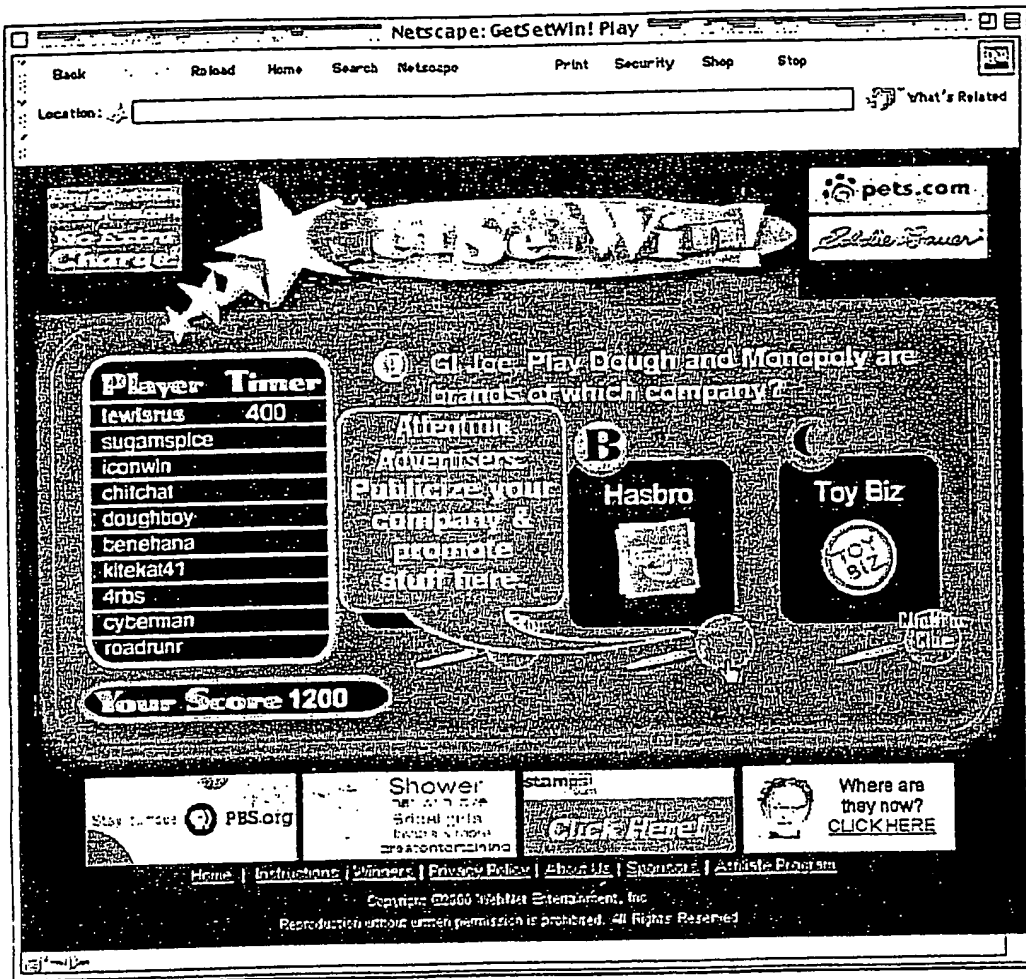


FIGURE 4C



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FIGURE 5



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FIGURE 6

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FIGURE 7A



FIGURE 7B

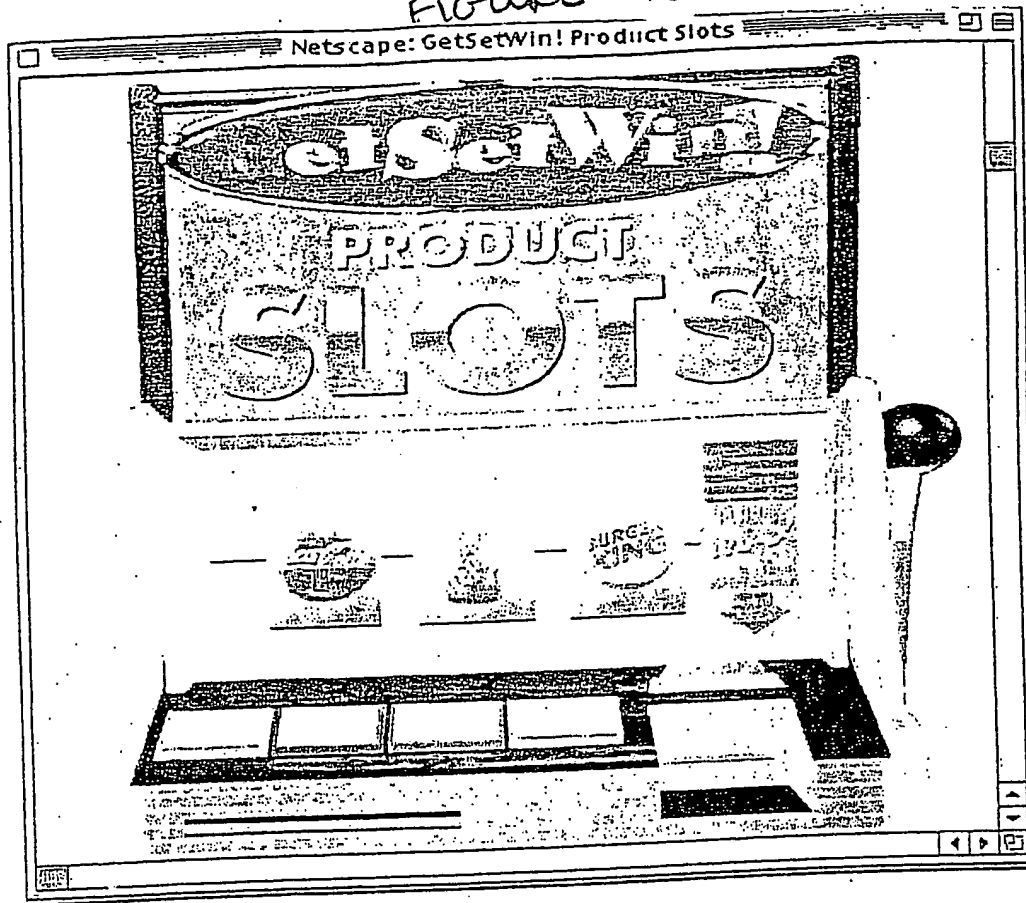


FIGURE 7C



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